Human PCBP1 Protein (His Tag)

Catalog Number: **11628-H07E**

General Information

Gene Name Synonym:

HEL-S-85; hnRNP-E1; hnRNP-X; HNRPE1; HNRPX

Protein Construction:

A DNA sequence encoding the human PCBP1 (NP_006187.2) (Asp 2-Cys 356) was expressed, with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 87 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 ℃

Predicted N terminal: Met

Molecular Mass:

The recombinant human PCBP1 comprises 362 amino acids and has a predicted molecular mass of 38.3 kDa. It migrates as an approximately 42 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 50mM Tris, 500mM NaCl, 20% glycerol, pH 8.0

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

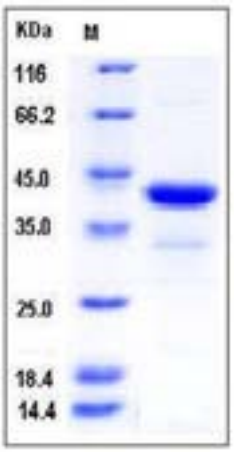
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Poly(rC)-binding protein 1, also known as Heterogeneous nuclear ribonucleoprotein E1, Alpha-CP1, Nucleic acid-binding protein SUB2.3 and PCBP1, is a family member of heterogeneous nuclear ribonucleoproteins (hnRNPs) that belong to RNA-binding proteins and bear three KH domains. PCBP1 is loosely bound in the nucleus. It may shuttle between the nucleus and the cytoplasm. It is abundantly expressed in skeletal muscle, thymus and peripheral blood leukocytes while a lower expression is observed in prostate, spleen, testis, ovary, small intestine, heart, liver, adrenal and thyroid glands. PCBP1 is widely expressed in many human tissues and involved in regulation of transcription, transportation process, and function of RNA molecules. PCBP1 plays a pivotal role in post-transcriptional regulation for RNA metabolism and RNA function in gene expression. PCBP1 acts as a negative regulator of CD44 variants splicing in HepG2 cells, and loss of PCBP1 in human hepatic tumor contributes to the formation of a metastatic phenotype.

References

1.Evans,J.R. et al., 2003, Oncogene 22 (39): 8012-20. 2.Huo,L.R. et al., 2008, Biochim Biophys Acta 1784 (11):1524-33. 3.Huo,L.R. et al., 2009, Beijing Da Xue Xue Bao 41 (4):402-8.